

Amateur Radio Newsline report number 1644 with a release date of Friday, February 13th, 2009 to follow in 5-4-3-2-1.

The following is a Q-S-T. Ham radio assists a brush fires rage in Australia, New Zealand hams to get more of 40 meters, a big win for mobile operation in Colorado, a new ham radio youth group wants you and the story of an honor recently bestowed on the ham who brought an amateur station to the Queen Mary. All this and more on Amateur Radio Newsline(tm) report number 1644 coming your way right now.

(Billboard Cart Here)

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RESCUE RADIO: HAM RADIO VS, THE VK BRUSHFIRES

Ham radio is on the fire-lines once again. This time its happening down under as we hear from Robert Broomhead, VK3KRB, reports from Melbourne:

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On line to begin this report I have Mark Dodds, VK3XMU, who is the secretary of WICEN. The WICEN guys that are in the field: What exactly are they doing?

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VK3XMU: "Our initial activation was to provide services for the councils when they were unable to communicate with the phone system being down. That role has expanded today as we posted some extra people to Alexandra to start operating the Incident Control Center radios for the DSE and CFA. That's the role we have done in the last couple of fires and its one that usually gets handed to us about now when some of the DSE and CFA resources for that sort of task start to run low.

"So far we have been posted to King Lake and Alexandra and we have some men on stand-by to be posted to the towns on the southern end of the Mirinda Highway below Alexandra when those towns are opened up."

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And I guess for you guys this will be a long term commitment rather thjan a short term one?

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VK3XMU: "We are expecting that the recovery phase in and around Marysville will be over a period of months, though we might not be posted there quite that long but we do expect to be there for certainly weeks.

"We have had offers of assistance from North Queensland, from Perth, we have had people offer to come across on the ferry from Tasmania and we have

even had an offer from Japan for people to do net control for us if we needed it."

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We are now joined on line by Fred Swenson, VK3DAC. Fred is on his property in Talangie. Talangie has been directly hit by bush fires and is still under ember attack. Fred joins us on his mobile phone:

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VK3DAC: "We're running off generators up here. We have no telephones or Internet connection. My mobile phone is the only thing that's working as we have some cable problems with the telephone system.

"I have been using amateur radio to talk to the radio group and I have access to the repeater. They have been providing me with updated weather reports and intimate details of the fires like locations. This has proven to be very useful and they have been very supportive.

"Im not the only person in the club that has been impacted by the fires. A couple of our members have. One has lost a home so I believe and another had a major problem with damage to his property.

"So, our network is working extremely well and its provided us with first hand information that's up to date and accurate."

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For the Amateur Radio Newsline, I'm Robert Broomhead, VK3KRB, of the WIA National News reporting from Australia.

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For those not aware, Australia's WICIN is the equivalent of ARES and RACES here in the United States. So far more than 200 people have lost their lives in this year's Australian brushfires. And as you heard, hams down under remain on alert. More on this story in future Newsline reports. (WIA News)

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RESTRUCTURING: NEW ZEALAND HAMS TO GET 7.1 - 7.2 MHZ PRIMARY

Still down-under, the New Zealand telecommunications regulatory authority has announced that nations amateur radio service will be given Primary access to 7.1 to 7.2 MHz after March 29th. The Ministry of Economic Development says that its making the change in accordance with the International Telecommunications Union's latest Radio Regulations. The latest ones published last year state that the use of the band 7.1 to 7.2 MHz for Broadcasting services will cease after March 29th 2009. (Southgate)

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RADIO POLICY: IARU WELCOMES TWO NEW MEMBERS

The International Amateur Radio Union has voted to admit the Emirates Amateur Radio Society and the Kazakhstan Federation of Radiosports and Radioamateur to the organization. The Emirates Amateur Radio Society was admitted by a vote of 72 in favor with 1 abstention. The Kazakhstan Federation received a unanimous 73 votes in favor. A minimum of 57 affirmative votes was required for adoption of new members into the IARU. (IARU)

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RADIO LAW: COLORADO HAMS WIN EXEMPTION TO CELLPHONE LAW

Meantime, on this side of the Pacific, Colorado amateur radio operators appear to have won a significant legislative victory before the Transportation and Energy Committee of the Colorado House of Representatives. This in relation to a bill concerning wireless telephone prohibitions on drivers that hams feared might impact on their ability to operate mobile. Don Carlson, KQ6FM, is here with the details:

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While the Colorado House Bill 09-1094 provided exemptions for public safety personnel within the scope of their duties and for the general public in an emergency, there was worry that enforcement authorities would fail to differentiate between amateur radio transceivers and traditional cellular telephones. Concerned about the possible ambiguity, Colorado Section Manager Jeff Ryan, K0RM, alerted Colorado Section Public Information Coordinator Robert Wareham, N0ESQ, of the situation. Wareham reviewed the proposed bill and together with Section Manager Ryan, devised a plan to address the concerns.

Ryan had a reluctance to add any amendments for what she considered "special interests." After introduction the Bill was referred to the House Committee on Transportation and Energy. A quick check by Wareham revealed that his local representative and fellow attorney, Frank McNulty was a committee member.

McNulty agreed to introduce an amendment to clearly exempt amateur radio operators. House Bill 09-1094 came before the committee on February 3rd. Testimony in support of the bill was emotional and compelling. Among others there was a mother who had lost her 9-year-old daughter to an inattentive driver fishing for a ringing cell phone.

Wareham testified on behalf of the Colorado ARRL Section. He reminded the lawmakers of the important role amateur radio plays in response to disasters and in support of the National Weather Service. He distinguished the use of mobile and portable radios from that of cellular telephones and pointed out that using an amateur radio on a routine basis required far less human interaction. Holding up a Yaesu FT-60 dual band portable, he showed the lawmakers how an HT with a tone pad might be mistaken for a wireless telephone device by misinformed law enforcement officials.

Following almost two hours of testimony from numerous witnesses, Representative McNulty introduced his amendment which was seconded by the committee Chair. When the Chair asked if there were any objections to the

amendment both Ryan and Wareham were surprised that not a single member of the committee, nor the Bill's author, offered any objection.

The measure was eventually approved by a vote of 9 to 2. It was then forwarded to the House Committee on Appropriations prior to being sent to the full House for a vote. Assuming the Bill passes through the appropriation screening, it will then be brought before the entire House or Representatives for a vote there. It must then be approved in the Colorado State Senate before being sent to the Governor for his signature.

For the Amateur Radio Newsline, I'm Don Carlson, KQ6FM, in Reno.

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If the Bill makes it to the governor's desk and he signs it into law, the new law has a proposed effective date of December 1st 2009. (N0DRC, ATNewsline(tm))

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BREAK 1

From the United States of America, We are the Amateur Radio Newsline, heard on bulletin stations around the world including the N5YYU repeater serving Clinton, Arkansas.

(5 sec pause here)

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RADIO LAW: A BIG TOWER VICTORY FOR A CALIFORNIA HAM

Meantime, a big win in a highly publicized California antenna case. Mark Abromowicz, NT3V, reports:

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Alex Zubarau WB6X will be allowed to put his tower back up after a Los Angeles County Superior Court judge rules the city of Palmdale was wrong to force him to remove it after granting him a valid permit.

Judge David Yaffe handed down the ruling on Feb. 6.

Zubarau found himself caught up in a neighborhood dispute that spilled over into a petition filed with the City of Palmdale after it had granted him permission to install his tower.

As with most cases, this one goes back a few years to 2005 when Zubarau first applied for a permit. It was approved and Zubarau put hi a 22-foot crank-up tower which had the ability to rise to 55 feet.

But he didn't put a 4-element, 20 meter antenna on the tower until January 2007.

That's when his problems began and the neighbors raised such concerns as

the aesthetic impact it was having, potentially suppressing property values and, the big one, causing interference with other electronic devices.

After getting the neighbors petition, the Palmdale council voted to revoke Zubarau's permit and he was directed by the planning commission to take not only the antenna but the tower structure down.

Enter the American Radio Relay League with volunteer counsel Len Shaffer WA6QHD and lots of support from hams in the Palmdale area as well as individuals and organizations from around the region who contributed money to his legal fight.

The ARRL also voted to contribute 5-thousand-dollars to the Zubarau defense fund.

Before going to court, Shaffer - Zubarau's attorney - tried to convince the council and its attorney that the antenna and the tower posed no interference to the neighbors.

As Zubarau's case was heading to court, the Palmdale Planning Commission began drafting an amendment to the community's antenna ordinance that would severely hamper amateur radio operators.

The amateur community quickly got word about it and began efforts to derail it.

Among those writing to the Palmdale authorities to raise concern was the ARRL's General Counsel Chris Imlay W3KD.

Imlay pointed out very succinctly to Palmdale officials that their proposed ordinance is unenforceable because it is pre-empted by federal and state laws.

As to the radio interference issues, Imlay noted those matters are strictly in the hands of the Federal Communications Commission.

In spite of that, it appears Palmdale officials are willing to spend tax dollars to continue their efforts to work on the proposed ordinance. It's unclear, however, whether they'll appeal the judge's ruling in the Zubarau case.

For the Amateur Radio Newsline, I'm Mark Abramowicz, NT3V.

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Still to be decided is the fate of that Palmdale's proposed anti-ham radio antenna law. A hearing on that was supposed to have taken place but was put on hold when the city realized the level of response that hams in the area had organized. (K7FE, ARRL, ARNewsline(tm))

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WITH THE ARRL: LEAGUE CHANGING FREQUENCY ON TOP BAND

The ARRL is changing frequency on Top-Band. Starting Monday, March 9, the

League's Maxim Memorial Station W1AW will be using a new 160 meter frequency of 1802.5 kHz for its CW transmissions. The change is being made to accommodate increasing activity near the current bulletin frequency of 1817.5. The move by W1AW to 1802.5 kHz should reduce the possibility of interference. (ARRL)

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RADIO AND YOUTH: NEW YOUTH GROUP WANTS YOU

A new national youth oriented ham radio group headquartered in Belen, New Mexico is seeking both youngsters and adult members to join and help them get active. Bill Pasternak, WA6ITF, reports:

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The Amateur Radio Youth Association was founded by three young hams. They are Dustin Cox, N0DRC, Jared Robbins, KE5LZV, and Phil Shaw, KE5LZX.

Originally called the Amateur Radio Cowboy Club, since November of 2007 the group has taken what it calls a new outlook on Amateur Radio. As a result, is now dedicating its self to the education of the general public and of its youth.

The long range mission of the Amateur Radio Youth Association and its KE5RPV station is to further teach the public about the importance of Amateur Radio and to help students in middle school, and high school learn subjects through the use of Amateur Radio.

A very noble task indeed, being taken on by a group of rather dedicated young hams. They deserve our support.

For the Amateur Radio Newsline, I'm the worlds oldest young ham, Bill Pasternak, WA6ITF, age 67, in the Newsroom in Los Angeles.

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To Join the Amateur Radio Youth Association go the [www dot ke5rpv dot org](http://www.ke5rpv.org) and click on the "Membership Application" tab on the left of the page. N0DRC says that anyone who wants to join will be welcomed whether you already have your ham radio license or not. (ARNewsline(tm))

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ENFORCEMENT: TWO BROADCASTERS HIT WITH TOWER FINES

Two commercial broadcast tower operators have received significant fines from the FCC. Jason Konarz, licensee of station WQMA-AM, in Marks, Mississippi., was fined \$14,000 for not enclosing the base of the tower with a locked fence. Initially announced in November, the fine was announced as a Forfeiture Order. It's now confirmed because the FCC say that Konarz didn't respond to the initial notice.

Another decision that has escalated to a Forfeiture Order involves Perry Broadcasting Systems, owner of two towers in Lajas, Puerto Rico. The agency said both towers lack red obstruction lighting. Perry also failed to

tell the commission immediately that the towers have changed hands. The FCC has now fined Perry \$13,000. (FCC)

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RADIO BUSINESS: TOWERS CONTINUE TO MAKE MONEY

If you own a communications tower anywhere in the world, you will likely be able to weather the current fiscal recession. This, according to a pair of technology research companies that track communications tower usage.

Globally, technology research firm Gartner Incorporated says that consumer broadband connections are estimated to jump to 499 million in 2012. This is up by more than 54 percent from 323 million in 2007.

Here in the United States the Stanford Group estimates that the \$7 billion tower market, dominated by American Tower, SBA Communications and Crown Castle International, is expected to grow 8 percent to 9 percent in 2009. This, as phone companies, grappling with weaker demand for land line services, are now striving to retain users by investing in new, high-speed Internet and video services. (RW)

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ELECTRONIC ANNIVERSARY: THE APPLE MAC HITS 25

And a happy birthday to the Apple Macintosh computer which turned 25 back on January 24th. The Mac, as it became known in computing circles, made its public debut in 1984 and kicked off a product line that were Apple's flagship computers for many years. Rebecca Bruce, has more:

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The project to create the Macintosh was started by legendary computer maker Jeff Raskin. The original machine had a 9 inch screen in an upright beige case, 128 kilobytes of RAM, internal floppy drive, and came with a keyboard and single-button mouse.

The operating system featured a Graphical User Interface with the mouse used to navigate the computer. This, by clicking on screen icons rather than having to type command line instructions.

The first Macintosh was unveiled in a television advertising campaign directed by film maker Ridley Scott. Those advertisements were originally aired during that year's Superbowl game in late January.

Apple had previously produced computers using a graphical user interface such as the Apple Lisa. Those machines cost far more than the original Macintosh and never gained much popularity. The Mac, did.

For the Amateur Radio Newslines, I'm Rebecca Bruce, in Los Angeles.

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Although rival Microsoft had launched its MS DOS operating system in 1981 it was not until 1985, a year after the Macintosh made its debut, that it

introduced its own GUI called Microsoft Windows. However, Windows did not enjoy any significant popularity until the advent of version 3.x in 1990. (Science OnLine)

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HAM HAPPENINGS" SEVHF CONFERENCE CALLS FOR PAPERS

A call for papers to be presented at the 2009 Southeastern VHF Society Conference is now open. The gathering takes place on April 24th and 25th in Charlotte, North Carolina.

The cutoff date to submit manuscripts for publication in the conference proceedings is March 2nd and should be weak signal VHF, UHF or Microwave related. Papers go by e-mail to Stephen Kostro, N2CEI at svhfs2009 (at) downeastmicrowave (dot) com (SEVHFS Release)

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HAM HAPPENINGS: OUTPOST PM CREATOR TO SPEAK AT WEST COAST EMMCOM U

The organizers of EMCOMM U have announced that Jim Oberhofer, KN6PE, the author of the Outpost PM emergency packet messaging software, will present two sessions at the event. The first will be the morning keynote, during which KN6PE will introduce Outpost PM to those not already familiar with it.

The second presentation will be a special session talking about how to actually set-up an Outpost PM network for use in your community. There, hardware, software, radios, and other aspects of a successful Outpost PM installation will be discussed.

EMCOMM U, is a one-day training workshop organized by San Joaquin County ARES and sponsored by the Tracy Amateur Radio Club, the Manteca Amateur Radio Club, and the San Joaquin County EMS Agency being held Saturday, March 14th in Stockton, California. For more information, visit www.emcommu.org. (EMCOMM U Press release)

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HAM RADIO ON VIDEO: 2008 ARRL - TAPR DCC NOW ON DVD

The three-day ARRL and TAPR 2008 Digital Communications Conference is now available on a six DVD set from Amateur Radio Video News. The conference was held last September near Chicago and featured 21 technical papers and introductory sessions from hams on the leading edge of digital communication. The video set was produced by Gary Pearce KN4AQ. Topics covered include advanced Software Defined Radio, APRS and Packet Radio, D-STAR, Winlink 2000/WINMOR and more. A free preview, more details, and on-line ordering is available at www.ARVideoNews.com (KN4AQ, ARVN)

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BREAK 2

This is ham radio news for today's radio amateur. From the United States of America, We are the Amateur Radio Newsline, with links to the world from

our only official website at www.arnewsline.org and being relayed by the volunteer services of the following radio amateur:

(5 sec pause here)

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THE SOCIAL SCENE: QCWA DAYTON HAMVENTION BANQUET MAY 16th

The Quarter Century Wireless Association 2009 Hamvention Banquet is now slated for 7:30 PM on Friday, May 16th at the Holiday Inn located on Main Street and I-70 in Dayton, Ohio. The after dinner presentation will include a documentary film titled "On Great White Wings" which tells the story of the famed Wright brothers discovery of flight. The cost of the evening is \$20 per person. Prepaid reservations go to Jerry Ragland, WA8BOB, 409 Park Ave, Franklin, Ohio, 45005-3500 (WB8IFM)

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THE SOCIAL SCENE: DAYTON HAMVENTION TO HOST 2009 ARRL NATIONAL CONVENTION

The Dayton Hamvention will again play host to the 2009 ARRL National Convention at the Hara Arena May 15th to the 17th.

According to a press release, the centerpiece of ARRL's convention planning is its ARRL EXPO. This, the League describes as a huge showcase of ARRL program representatives and activities. In addition, many new exhibits are being planned, with special focus on operating and project-building.

A preview of what is planned for ARRL EXPO can be found at the ARRL EXPO Web site. It's in cyberspace at www.arrl.org/expo (ARRL)

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CHANGING OF THE GUARD: FAMED DX'ER JIM SMITH, VK9NS - SK

The changing of the guard in amateur radio continues with word of the passing of Famed DX'er Jim Smith, VK9NS, of Norfolk Island, Australia, who passed away Tuesday, February 10. Better known by his old call P29JS, Smith not only put rare locations on the air but also was the founder of the Heard Island DX Association. He also authored his own autobiography that he simply titled The Old Timer.

Smith was a member of the CQ Magazine DX Hall of Fame. He was age 80 when he died following a short illness and is survived by his wife Kirsti, VK9NL, and his four children. At airtime, funeral arrangements have not been announced. (K5SW, W0W0)

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CHANGING OF THE GUARD: DIETER SCHLIEMANN KX4Y _ SK

And, the sad news from AMSAT of the passing of Dieter Schliemann, KX4Y. According to Amateur Radio on the International Space Station International Chairman Frank Bauer, KA3HDO, Schliemann was instrumental in supporting many important activities allied to the ARISS program as well as within

AMSAT itself. His greatest accomplishment may have been his organizing the use EchoLink and IRLP to assist with classroom contacts with hams on Earth orbit. Schliemann, of Scottsboro, Alabama, was 68 when he passed away on February 9 following a battle with cancer. (KA3HD0)

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RADIO IN SPACE: TWO COMMUNICATIONS SATELLITES COLLIDE

Two communications satellites collided in the first-ever crash of two such spacecraft on-orbit. The collision involved a United States Iridium commercial satellite, which was launched in 1997, and a Russian satellite launched in 1993. The Russian satellite was believed to be nonfunctioning and out of control.

The Iridium craft weighed 1,235 pounds, and the Russian craft nearly a ton. Scientists have yet to determine how many fragments were generated or how large they might be. NASA said it will take weeks to determine the full magnitude of the crash which occurred nearly 500 miles over Siberia on Tuesday, February 10th. (NASA)

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WORLDBEAT: 2 METER AM TAKING OFF IN THE UK

A retro ham radio movement to 2 meter AM is gaining popularity in the United Kingdom. The renewed interest in AM seems to be driven by the availability of cheap ex-land-mobile equipment. Also because VHF AM rigs can be simple to build, making them ideal home construction projects.

As a result, footnote 8 of the UK 2 meter plan now says that the use of Amplitude Modulation is acceptable within the All Modes segment of the band. It also notes that AM usage may often be found on 144.550 MHz although this frequency is not officially recognized within the 2 Meter band plan.

The RSGB does ask AM users to consider adjacent channel activity when selecting operating frequencies. (Southgate)

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WORLDBEAT: CROATIA, SPECIAL EVENT STATION

The 48th conference of the International Federation of Air Traffic Controllers' Associations will take place in the Croatian city Cavtat, from April 20th to the 24th. To commemorate the meeting, the special call 9A48IFATCA is active until December 31st. QSLs to 9A4WW either direct or via bureau. (Southgate)

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WORLDBEAT: HAM RADIO CELEBRATES RAI

It was 55 years ago that Italian broadcaster Radiotelevisione Italiana took to the airwaves. The first TV signals aired in January 1954 which is reason enough to activate the special event station II2RAI until Dec 31st

of this year. QSL to IQ2RD via bureau or electronically using Logbook to the World. (Southgate)

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DX

In DX word from EA4ATI that he and a team of operators are preparing to activate Nauru, in the Pacific, sometime in May. The call sign will be C21TI. Travelling through Australia to get to Nauru, tentative dates will be either from May 3rd to the 17th or the 16th to the 30th. Activity will be on all HF bands including 60 and 6 meters. QSL will be via EA4ATI.

N4BP and K4PG, as C6AKQ and C6APG respectively, will be active from the Bahamas through February 22nd. Look for them to be on 30, 17 and 12 meters between antenna jobs. QSL to their home call signs, direct or via the Bureau.

Also, K3TEJ, will active from Dominica through February 27th. He is operating CW and RTTY with a focus on 160, 30, 17 and 12 meters. QSL via K3TEJ, direct or via the bureau.

And later this year, keep time open to look for K90T and KB9LIE who plan on operating portable F P from Miquelon Island from July 10th to the 18th. They will also participate in the IARU HF World Championship Contest on July 12th and 13th. Activity outside of the contest will be on 160 through 6 meters using CW and SSB. QSL direct with return postage or through the bureau. Logbook to the World electronic QSL's are also welcome but they are not accepting verifications from those using eQSL.

(Above from various DX news sources)

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THAT FINAL ITEM: RADIO ROOM ON QM RENAMED TO HONOR K6OSC

And finally this week, word that the wireless room on board the Queen Mary Ocean Liner attraction in Long Beach California was recently renamed the Nate Brightman Radio Room. This, in honor of Nate Brightman, K6OSC, who helped to make a radio station on board the retired luxury liner a reality many years ago. Amateur Radio Newsline's Bruce Teenent, K6PZW, has the rest of the story:

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Nate Brightman, K6OSC, lives in Long Beach, California and holds an Advanced Class license. Now in his 90's, he was first licensed in 1957, and is in his 32nd year in service with his local Red Cross Disaster Services group. More important is that Nate Brightman is now in his 30th year as manager of W6RO aboard the Queen Mary. Some say it's a station that would not exist if not for K6OSC.

Nate Brightman first thought up the idea of an amateur radio station aboard the Queen Mary to be on the air during the ocean liner's final voyage from Southampton England to Long Beach. He suggested the concept to his local

club, the Associated Radio Amateurs of Long Beach. After getting the green light, Brightman began the very difficult job of trying to get things organized on an international scale. He was successful when fellow club member Al Lee, W6KQI, was issued a United Kingdom amateur radio license and the commemorative call letters of GB5QM. This was the only amateur radio station ever licensed for operation aboard the Queen Mary, and the first time an American was licensed to operate ham radio aboard a British flag-carrying ship.

The voyage lasted six weeks due to the route the Queen had to take around Cape Horn. During the trip, W6KQI made over 3,000 contacts using a donated Swan 500 transceiver. After the ship was in port at Long Beach for restoration, Brightman submitted a 12 page proposal for a permanent amateur radio operation aboard the Queen Mary. It took a number of years, but on April 27th 1979, Queen Mary station W6RO went on the air and has been in continuous use ever since.

For his work in getting a ham station on the Queen Mary for its final voyage and in spearheading the W6RO station in the ship's Radio Room, Nate Brightman, K6OSC, was named as the 1991 recipient of the Dayton Hamvention Special Achievement Award.

Now the ultimate honor for the man that made it happen: The renaming of the radio room in his name as a lasting tribute. One that was announced by the outgoing Director of the Queen Mary Foundation, Joe Prevatil, before his organization turned over management of the ship to Save the Queen, LLP. Ironically, Prevatil made the announcement at K6OSC's 90th birthday party which was held on board the Queen Mary.

For the Amateur Radio Newsline, I'm Bruce Tennant, K6PZW, editorializing a bit to say congratulations Nate Brightman, K6OSC. You truly deserve the honor.

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For more information about W6RO or to become a Wireless Room Operator, e-mail W6RO (at) queenmary (dot) com. (ARNewsline(tm))

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NEWSCAST CLOSE

With thanks to Alan Labs, AMSAT, the ARRL, the CGC Communicator, CQ Magazine, the FCC, the Ohio Penn DX Bulletin, Radio Netherlands, Rain, the RSGB, the Southgate News and Australia's WIA News, that's all from the Amateur Radio Newsline(tm). Our e-mail address is newsline (at) arnewsline (dot) org. More information is available at Amateur Radio Newsline's(tm) only official website located at www.arnewsline.org. You can also write to us or support us at Amateur Radio Newsline(tm), P.O. Box 660937, Arcadia, California 91066.

A reminder that the nominating period for the 2009 Amateur Radio Newsline Young Ham of the Year Award is now open. Complete details are on our website at www.arnewsline.org Just scroll down to the words 2009 YHOTY Nominations Now Open and click for more information and an official

nominating form.

For now, with Bill Pasternak, WA6ITF, at the editor's desk, I'm Don Wilbanks, AE5DW, saying 73 and we thank you for listening.

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